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NOTICE OF ALLOWANCE AND FEE(S) DUE

04743

7590

02/24/2004

MARSHALL, GERSTEIN & BORUN LLP 6300 SEARS TOWER 233 S. WACKER DRIVE CHICAGO, IL 60606

EXA	MINER
woor	O, KEVIN S
ART UNIT	PAPER NUMBER

DATE MAILED: 02/24/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,365	12/11/2001	Gabel Chong	30320/37784	1141

TITLE OF INVENTION: THREE-DIMENSIONAL TAPERED OPTICAL WAVEGUIDES AND METHODS OF MANUFACTURE THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/24/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u>

(703) 746-4000

appropriate. All further cor indicated unless corrected by	below or directed otherwise	Patent advance orders :	and notification	of maintenance fees v	will be mailed to the current; and/or (b) indicating a sep	l correspondence address a:
maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 04743 7590 02/24/2004			ock I)	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mu		
				have its own certificat	e of mailing or transmission.	
6300 SEARS TOW 233 S. WACKER I	DRIVE	N LLP		I hereby certify that the States Postal Service addressed to the Mai	rtificate of Mailing or Tran nis Fee(s) Transmittal is beir with sufficient postage for fi Il Stop ISSUE FEE address TO, on the date indicated be	ig deposited with the Uniter rst class mail in an envelop a above, or being facsimile
CHICAGO, IL 606	000					(Depositor's name)
						(Signature)
						(Date)
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☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		tion form att	attorneys or agents. If no name is listed, no name will be printed.			
3. ASSIGNEE NAME AND PLEASE NOTE: Unless been previously submittee (A) NAME OF ASSIGNE	an assignee is identified bel d to the USPTO or is being s	low, no assignee data wi submitted under separate	ill appear on the cover. Comple	patent. Inclusion of a	ssignee data is only appropri F a substitute for filing an ass UNTRY)	ate when an assignment has ignment.
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□ Publication Fee			-	card. Form PTO-2038		Ψ.
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Director for Patents is reques	sted to apply the Issue Fee an	nd Publication Fee (if an	y) or to re-apply	any previously paid is	ssue fee to the application ide	entified above.
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Patent and Trademark C 22313-1450. DO NOT SI SEND TO: Commissioner	tion is required by 37 CFR by the public which is to five is governed by 35 U.S.C. I set to complete, including grant to the USPTO. Time will the amount of time your his burden, should be sent to prince, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Virguation Act of 1995, no public the property of the complete in the	of Commerce, Alexandre FORMS TO THI ginia 22313-1450.	dria, Virginia S ADDRESS.			
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6300 SEARS T	OWER		ABTIBUT	PAPER NUMBER
233 S. WACKI	ER DRIVE		ART UNIT	PAPER NUMBER
CHICAGO, IL	60606		2874	
			DATE MAILED: 02/24/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 93 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 93 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

K)	
4.	

	Application No.	Applicant(s)
	10/014,365	CHONG ET AL.
Notice of Allowability	Examiner	Art Unit
	Kevin S Wood	2874
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the After Final Amend</u>	lment filed 23 January 2004.	
2. The allowed claim(s) is/are <u>1-30</u> .		
3. \boxtimes The drawings filed on <u>23 January 2004</u> are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	· ··········
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the paper in the deposit of the paper in the	on's Patent Drawing Review(PTO- s Amendment / Comment or in the O 84(c)) should be written on the drawin ne header according to 37 CFR 1.121(c	office action of the back) of all.
 DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT I 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	e
		,

Application/Control Number: 10/014,365 Page 2

Art Unit: 2874

DETAILED ACTION

Response to the Amendment

1. This Action is responsive to the Amendment After Final filed 23 January 2004.

No claims have been added, cancelled or amended. Claims 1-30 are pending in the

application.

2. Based on the new formal drawings filed on 23 January 2004, the objections to

the drawings are withdrawn.

Response to Arguments

3. Applicant's arguments, filed on 23 January 2004, with respect to claims 18-23

have been fully considered and are persuasive. The rejections of claims 18-23 have

been withdrawn. The examiner agrees that the White reference (U.S. Patent No.

6,624,077) was not filed or published prior to the filing date present application, and

therefore is not prior art under 35 U.S.C. 102(e) or 35 U.S.C. 103.

Allowable Subject Matter

4. Claims 1-30 are allowed.

5. The following is a statement of reasons for the indication of allowable subject

matter:

Referring to claims 1-17, the primary reason for allowance of the claims is the

inclusion of a step of forming a second trench in the core material with first and second

Application/Control Number: 10/014,365

Art Unit: 2874

ends in general alignment with the first and second ends of the first trench and with the second end of the second trench being deeper that the first end of the second trench.

Referring to claims 18-23, the primary reason for allowance of the claims is the inclusion the trench being disposed entirely within the first cladding layer with a portion of the first cladding disposed between the trench and the first substrate and the trench being partially filled with core material.

Referring to claims 24-30, the primary reason for allowance of the claims is the inclusion of the step of reactive ion etching the core material under conditions sufficient to permit reverse RIE lag to occur so as to form trenches with one end deeper than the other.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin S Wood whose telephone number is (571) 272-2364. The examiner can normally be reached on Monday-Thursday (7am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney B Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/014,365

Art Unit: 2874

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KSW

Primary Examiner

Page 4